

Bench Mark: 1/2" Iron rod with cap, Sta. 513+52.54, 19.68' Lt., Elev. 881.31.

Existing Structure: None.

DESIGN SPECIFICATIONS
2002 AASHTO Standard Specifications,
17th Edition

DESIGN STRESSES
FIELD UNITS

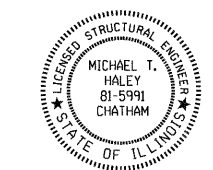
$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 38,500$ psi (Sheet Piling)
(Gr. 39 AASHTO M 202)

INDEX OF SHEETS

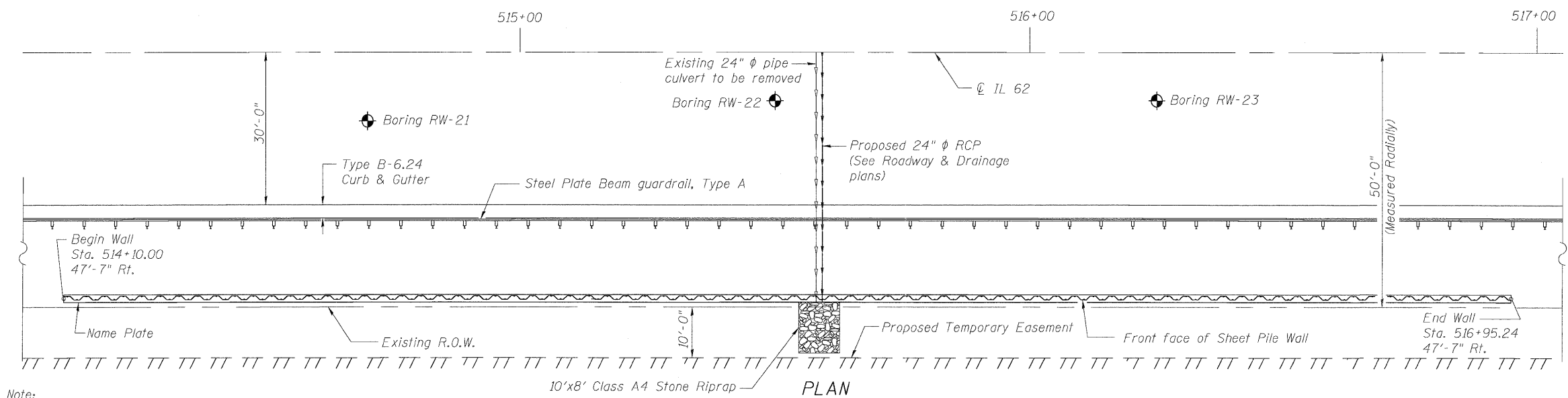
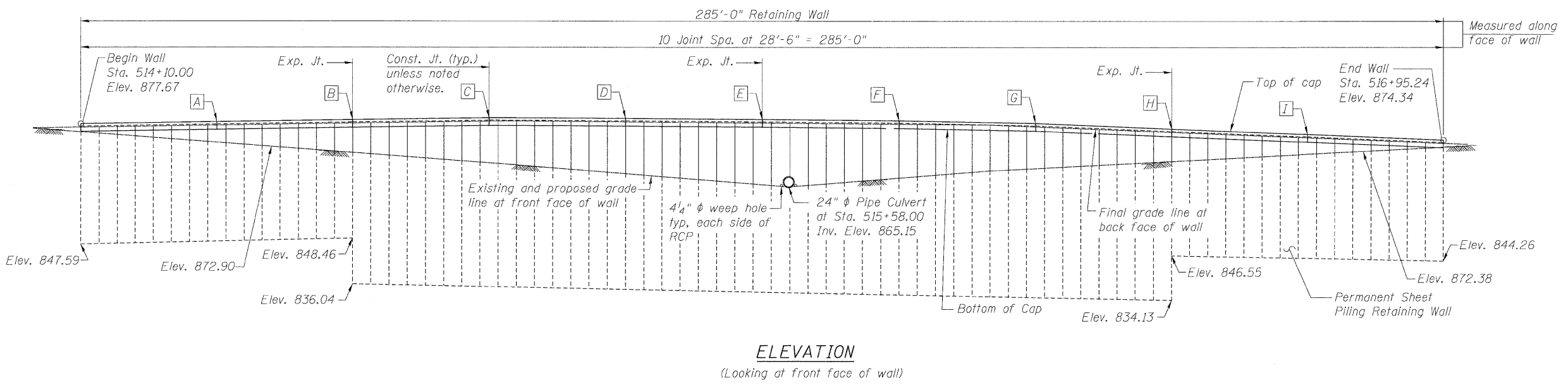
1. General Plan & Elevation
2. Wall Details-1
3. Wall Details-2
4. Wall Details-3
5. Soil Borings-1
6. Soil Borings-2

RT. STA. 514+10.00 TO STA. 516+95.24
BUILT 2011 BY
STATE OF ILLINOIS
F.A.P. RT. 339 SEC. 116 Y-1-R-1
STRUCTURE NO. 016-W997

NAME PLATE
See Std. 515001



Michael T. Haley 6-21-2011
Date
Michael T. Haley
Licensed Structural Engineer
State of Illinois No. 81-5991
Expires 11/30/2012



Note:
Offsets measured radially to C IL 62
from back face of sheet piling.

TOP OF CAP DATA

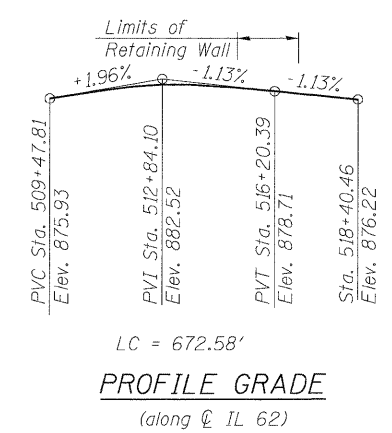
LOCATION	STATION	ELEVATION
A	514+38.52	878.12
B	514+67.05	878.54
C	514+95.57	878.91
D	515+24.09	878.82
E	515+52.62	878.60
F	515+81.14	878.35
G	516+09.67	877.79
H	516+38.19	876.63
I	516+66.71	875.49

GENERAL NOTES

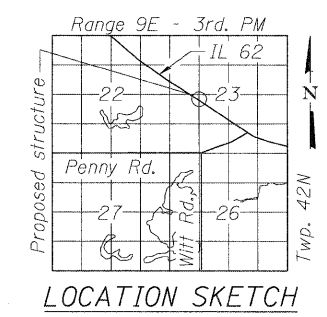
Reinforcement bars shall conform to the requirements of ASTM A706 Gr 60. See Special Provisions.
Reinforcement bars designated (E) shall be epoxy coated.
Concrete Cap shall be constructed after backfill is in place.
It shall be the Contractor's responsibility to verify the location of the existing underground utilities prior to starting construction.
The Contractor shall take precaution during pile driving operations so as not to damage any proposed and/or existing utilities.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Structures	Cu. Yd.	36.9
Stud Shear Connectors	Each	380
Reinforcement Bars, Epoxy Coated	Pound	3650
Permanent Steel Sheet Piling	Sq. Ft.	10560
Pipe Underdrains for Structures 4"	Foot	286
Geocomposite Wall Drain	Sq. Yd.	94
Porous Granular Embankment, Special	Cu. Yd.	125.7
Name Plates	Each	1



CURVE DATA
(Illinois Route 62)
 $\Delta = 1^\circ 32' 54''$ (RT)
 $D = 0^\circ 06' 00''$
 $T = 774.99'$
 $L = 1,549.89'$
 $E = 5.24'$
 $R = 57,351.19'$
 $P.C. = \text{Sta. } 505+12.36$
 $P.T. = \text{Sta. } 520+62.25$
 $P.I. = \text{Sta. } 512+87.35$



APPROVED
FOR STRUCTURAL ADEQUACY ONLY
D. Cal. Pappas (PE)
ENGINEER OF BRIDGES AND STRUCTURES

RETAINING WALL NO. 4
STA. 514+10.00 TO STA. 516+95.24